

IRON AGE



Narrow Rows of Potatoes
Between Rows of Grapes

FARM, GARDEN AND ORCHARD IMPLEMENTS

American Factory
Established 1856

BATEMAN M'FG CO.,
GREENLOCH, NEW JERSEY, U.S.A.

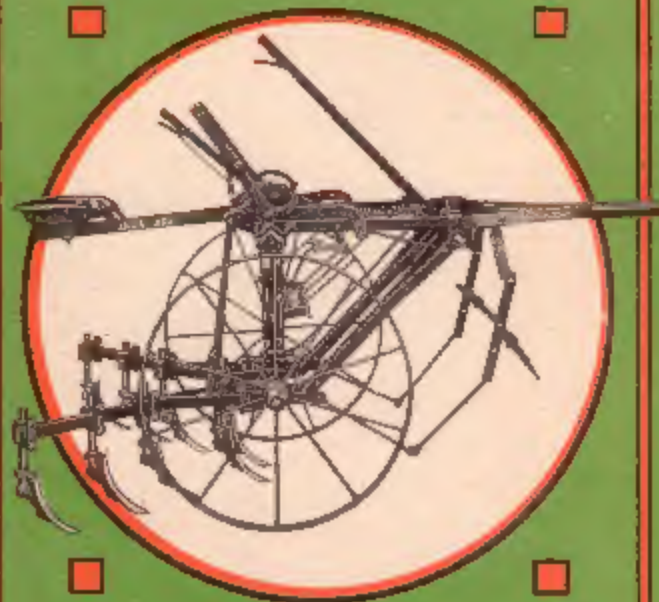
Canadian Factory
Established 1865

THE BATEMAN-WILKINSON CO.,
Limited
TORONTO, ONTARIO

Tools are carried in stock at centers of distribution.
Liberal stocks of suitable tools for each vicinity are carried by the
best class of implement and hardware dealers in the country.
If not handled by your local dealer, write us for nearest address
where tools can be seen and explained.

Easier and Quicker Cultivation with Two Horse Riding and Walking Cultivators

New All-Steel
Pivot Wheels
Pivot Gangs
Parallel Motion
Perfectly Adjustable
Balance Frame



Low or High-Wheel—Otherwise Alike



Easier and Quicker Cultivation

THAT is the reason men buy riding cultivators. Modern farmers have seen in their experience that frequent, thorough cultivation is best for crop and soil. In order to get over the ground often, it is necessary to do one or two rows complete. It is necessary for the man to ride to get through quicker and to keep him satisfied with his job. The easier it is done, the more willing he is to keep everlastingly at it. Every extra cultivation helps in the yield—experiment stations led the way in this work but thousands of farmers are showing every season, the wisdom of these extra cultivations—they would as soon leave out the fertilizing. Farmers turn “last year’s loss” into “this year’s substantial profit” by extra cultivation. Keeping at it pays.

The cultivator cuts considerable figure in this work. Most any kind of a decent seat will carry a man across the field. We have the seat and have built around it two new cultivators, differing only in the size of the wheels and the necessary changes on that account. The principles of design are the same as in our other pivot wheel cultivators but construction has been made stronger, yet simpler and lighter. The new machine has had a good test during the past season for wear and efficiency and we know what it will do.

We have made the gangs alike, all pivoted and all operated the same way. The frames are alike and both machines have the same steel pole. This simplifies your choice to high or low wheels, eight hoes or six, or zig-zag gang construction, break pin hoes, spring hoes or spring teeth, to suit the work you have to do. We have taken off the lifting springs for the levers because they

are not needed in most cases. Same with fenders or shields for plants. Either can be added at slight cost. We can furnish wheels with roller bearings if desired.

One point we want to call to the dealer’s attention—you will find these new riding cultivators the simplest machines to set up that you ever saw. That will interest the farmer too, if he has occasion to set up his own which does not happen often. It is a one man job—you don’t have to put it upon a trestle or a box to get it set up—it goes to you mostly put together. The frame, pole, wheels and standards, are about all there is to each machine, as shipped. We make both one- and two-row machines, pivot or fixed wheels, for level or rolling country or side hills. Also, attachments for various special kinds of work. (See pages 8-9.)

There are no better Two Horse Walking Cultivators made than those shown in this book. Don’t forget, either, that we make complete lines of Horse Hoes, Harrows and Cultivators, for one horse; also, hand tools such as wheel hoes, seed drills, fertilizer distributors, etc.

Again, these riding cultivators are but one part of our line of potato machinery—Planters, Sprayers, Diggers, Weeders, Ridgers. We have separate booklets covering each part of the line. Ask for any or all of them and any information or suggestions you want. There are eighty years of factory and farm experience behind these tools and we have the reputation of making good every claim and making right every defect.

**BATEMAN M’F’G CO.,
GRENLOCH, NEW JERSEY, U. S. A.**



All-Steel Pivot-Wheel Riding Cultivator

Note the spread of the gangs and their construction, the pivots, strong braces in front, way the point standards are held in place. Also, the steel axle standards and angle steel arch

No. 78

8 Hoes; without
Fenders

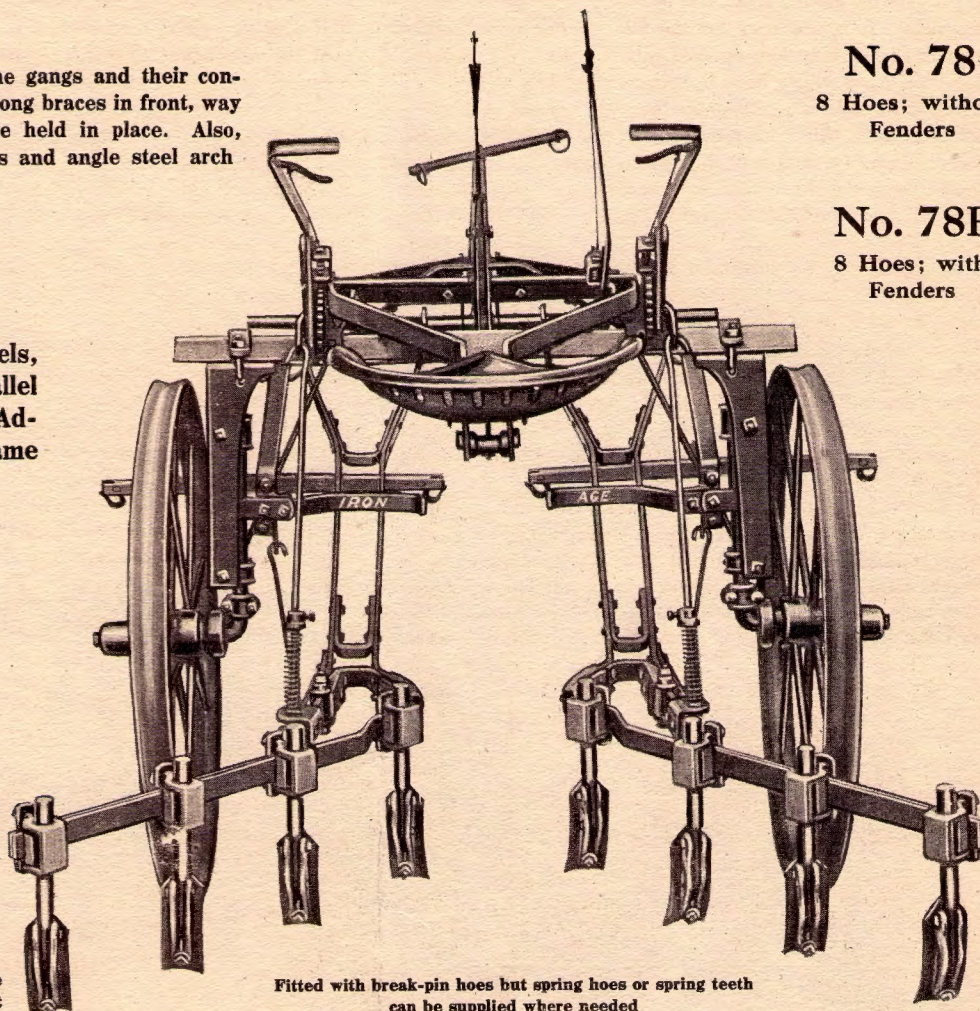
No. 78F

8 Hoes; with
Fenders

All-Steel Pivot Wheels,
Pivot Gangs, Parallel
Motion, Perfectly Ad-
justable, Balance Frame

Cultivates rows 28
to 48 inches apart

Every cultivator tooth can be
placed just where you want it



Fitted with break-pin hoes but spring hoes or spring teeth
can be supplied where needed

LIST OF LOW PIVOT-WHEEL, ALL-STEEL MACHINES

	Packed weight, lbs.		Packed weight, lbs.
No. 76 —Six Hoes, plain.....	362	No. 78 —Eight Hoes, plain.....	374
No. 76A —Six Hoes, Spring Teeth.....	360	No. 78A —Eight Hoes, Spring Teeth.....	372
No. 76B —Six Hoes, Spring Hoes.....	384	No. 78B —Eight Hoes, Spring Hoes.....	404
No. 76R —Six Hoes, Roller Bearing.....	370	No. 78R —Eight Hoes, Roller Bearing.....	382
No. 76S —Six Hoes, Spring Lift.....	370	No. 78S —Eight Hoes, Spring Lift.....	382
No. 76RS —Six Hoes, Roller Bearing and Spring Lift.....	378	No. 78RS —Eight Hoes, Roller Bearing and Spring Lift.....	390
		No. 78Z —Eight Hoes, Zig-Zag Gangs.....	378

All-Steel Pivot-Wheel Riding Cultivator—Continued

This is our latest and best line of riding cultivators. They have strength, efficiency, convenience, wearing qualities, lightness

Steel Makes them both strong and rigid, and yet light—steel pipe pole, solid steel neck-yoke, **Construction** steel frame, inverted angle steel arch, one-piece steel axle standards (or shinbones), steel levers, steel lock washers on every bolt, the simplest but strongest steel gangs you have ever seen. Not a piece of wood in the machine, except the break pins for the plain hoes.

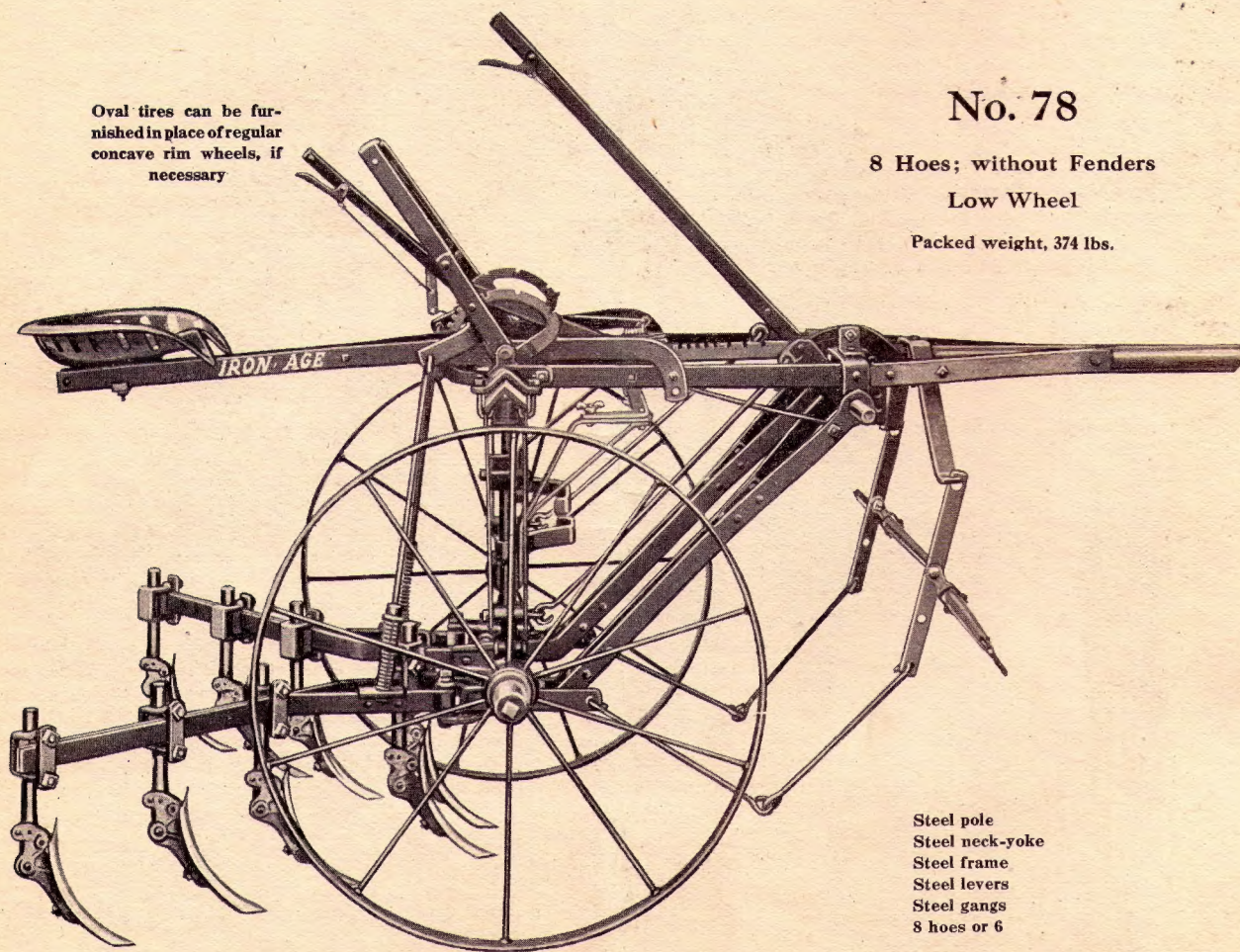
Oval tires can be furnished in place of regular concave rim wheels, if necessary

No. 78

8 Hoes; without Fenders

Low Wheel

Packed weight, 374 lbs.



Steel pole
Steel neck-yoke
Steel frame
Steel levers
Steel gangs
8 hoes or 6

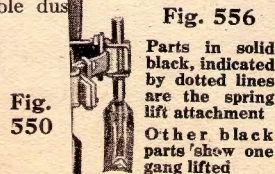
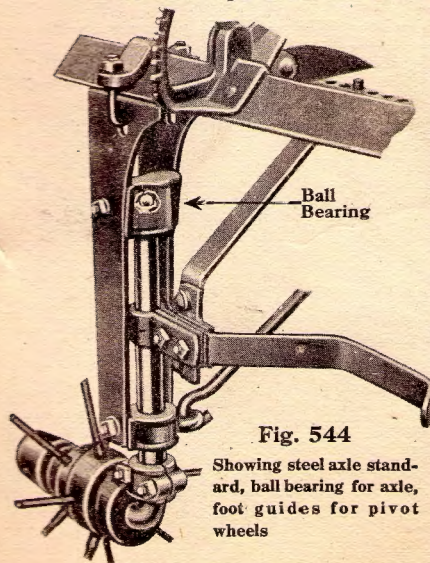
All-Steel Pivot-Wheel Riding Cultivator—Continued

Frame Note first the inverted angle steel arch. It not only makes a strong arch for the machine but is the best place to fasten the wheel standards, levers, frame, etc. The wheel standards slide easily on this inverted angle and at the same time cannot slip when fastened in place. Next, note the steel frame with angle steel front bar split at the ends for attaching to gang bar and for reinforcing the frame at the bends. Then the tubular steel pole securely fastened to the frame in two places makes the whole frame rigid and practically unbreakable. This whole construction is a light yet very strong arrangement. There are no wood poles, neck-yokes, etc., to break and no unnecessary weight for the horses to draw.

The Levers The first and fourth in the cut (*Fig. 543*) from left to right, are for raising the gangs, the second is the balance frame lever and the third lever is to adjust the gangs for close cultivation of thin plants or for wide bushy plants.

Pivot Wheels See first the steel axle standards—they are fitted to the shape of the inverted steel angle arch bar and held in place on the arch bar by a steel clamp and separate steel staples.

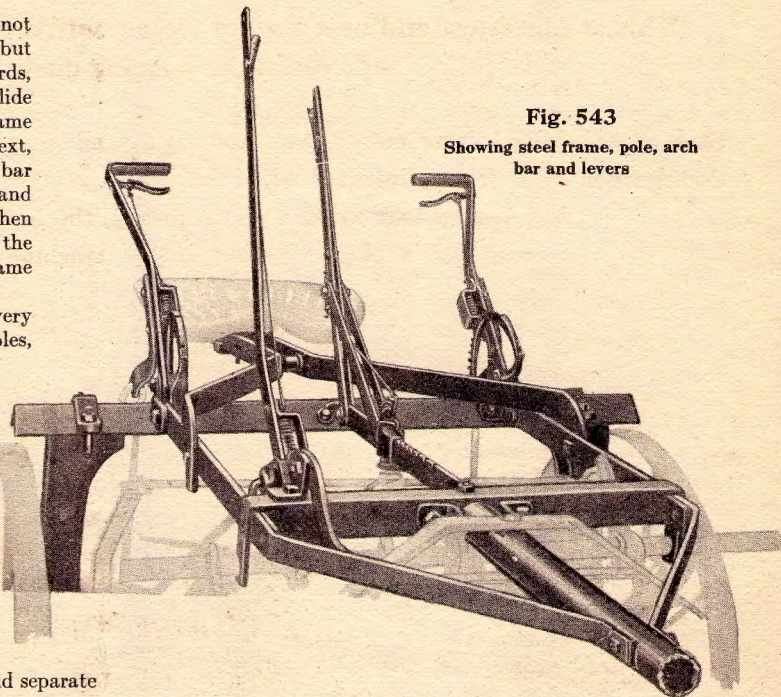
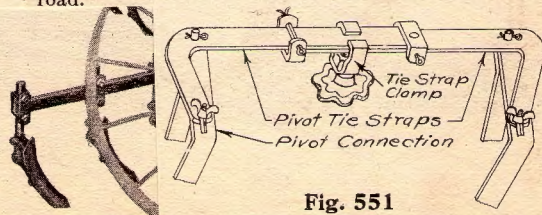
The foot guides fit around the pivot axle, each securely fastened in position with steel key or tongue which extends out and is bolted to the guides so it cannot possibly come loose. We use a ONE PIECE AXLE with a hardened steel ball bearing at the top as shown in *Fig. 544* so that when you use the pivots the wheels swing easily. The wheels are steel, 32 inch and 2½ inch concave rims, with staggered spokes, removable dust



Tie Straps

cup hubs (*Fig. 550*). The latter are filled with grease which is forced the length of the axle by a single turn of the cap on the threaded hub. The grease also fills a small chamber in the hub box to prevent heating. If dirt should work in from the inside of the wheel, each turn of the grease cap on outer end will force dirt and grease out so no dirt can get in and stay in wheel hub. The wheel is held in place by a linch pin through axle just inside the cap.

Fig. 551 shows construction of tie straps, clamp and pivot connections. Keeps the wheels parallel, no matter where wheels are set on the arch bar. If machine is to be used with fixed wheels the thumb nuts as shown in the cut will hold them. This is desirable when on the road.



All-Steel Pivot-Wheel Riding Cultivator—Continued

The GANGS on these cultivators are pivoted so that you can get any range you need and you can adjust the cultivator hoes wherever you want them. The pivots are cone-shaped bearings (Fig. 553) that, when bolted tight, hold the gang rigid so it can't twist. Flat, steel bars are used, doubled at the rear end and riveted into one bar for greater strength.

The Gang Head Fig. 552 shows how the two side bars of each gang are attached in front, wide apart, on a high carbon, smooth finish steel bar giving a very strong bearing and an easy shift. Just note how they are braced, top and bottom, in front of the pivots.

Tooth Standards These are held in place with drop forged steel clamps and solid blocks between the standard and the bar. *You can have any adjustment necessary for the cultivator points.* You can throw the soil to or from the plants, or travel straight ahead, cutting deep or shallow. The teeth are independent so you can have shallow cultivation near the plants and deep in the middle or any way you want.

Parallel Gang Movement The gangs being attached to shaft in front, shift in parallel lines. You can set the cultivator points where you want them, and they will stay exactly so, no matter where you shift the lever. If the points are set squarely to the front each cuts the full $2\frac{1}{2}$ inches. One lever shifts both of the gangs, for width, with the team in motion as easily as when the team is standing.

Holding Points Down Tension springs are used on the lifting lever rods, to hold the points to their work, even in hard soil. But the tension always gives when the points strike obstructions.

Width of Rows 28 to 48 inch rows can be cleaned up. The wheels, when set close, are 33 inches apart, center to center and at their widest 43 inches apart. The gang lever gives adjustment from 6 to 16 inches varying with adjustment of the gang pivots.

The Teeth The regular size is our No. 91, $2\frac{1}{2}$ inch, but we can supply any of the sizes listed on the inside back cover. It is convenient to have narrow teeth on hand when you want to

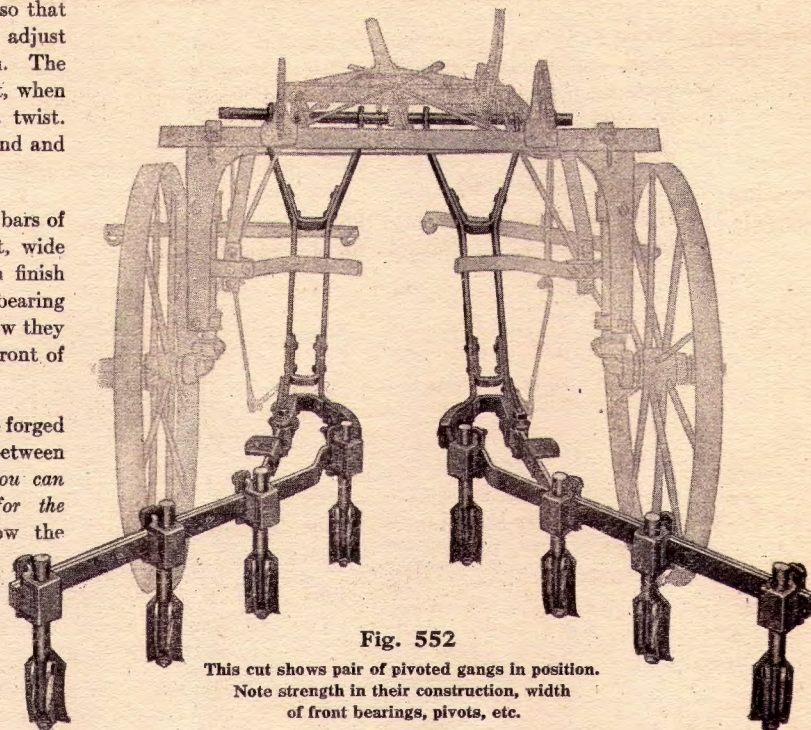


Fig. 552

This cut shows pair of pivoted gangs in position. Note strength in their construction, width of front bearings, pivots, etc.

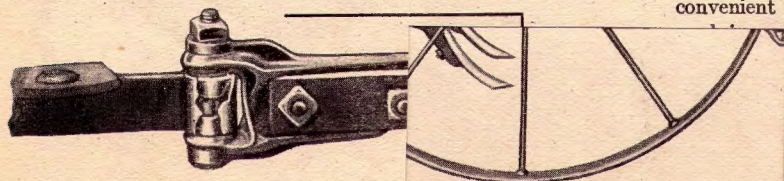


Fig. 553

Showing cone-shaped bearings for pivoted

of the special adjustments to equalize the difference in light and heavy men on the seat, so that there is no weight on the horses' necks.

support can be changed for height and angle. It can be set to accommodate extremely short or

All-Steel Pivot-Wheel Riding Cultivator—Continued

Equipment Either 8 or 6 hoe cultivators can be supplied. Also No. 78Z (see below) which has the hoes arranged in what are known as *zig-zag gangs*—this gives more clearance for trash or for soil that is lumpy. These are not needed in most soils.

Roller Bearing Wheels These are supplied special at an extra charge. The rollers are in a cage in the hub of the wheel.

If complete machine is wanted this way, order by adding letter "R" to the number, as No. 78R. See list of machines on page 1.

Break pin hoes, Fig. 554, are furnished regularly on all cultivators.

Spring Hoes These are intended for use in stony ground where there would be too much breakage of the wood pins in the regular hoes. The spring parts are shown solid in Fig. 465—they are attached high on the standard, out of the way of trash, etc. If new cultivators are wanted fitted with spring hoes, order by adding the letter "B" to the number, as No. 78B.

To Change from Break-Pin to Spring Hoes If you have break-pin hoes with standards No. E376 and want to change to spring hoes, you can easily slip these extra parts on the standards.

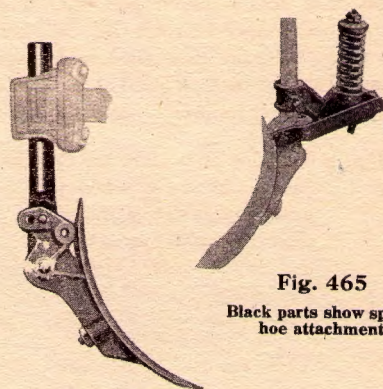


Fig. 465

Black parts show spring hoe attachment

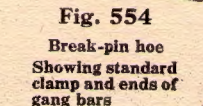
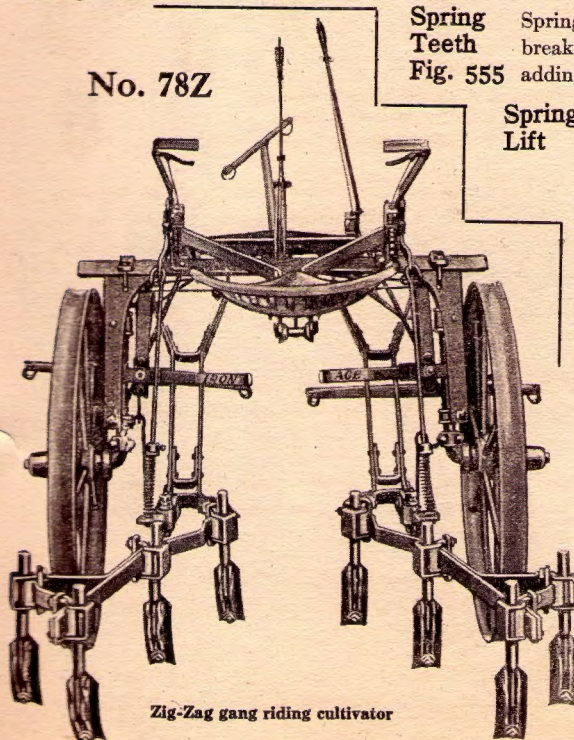


Fig. 554

Break-pin hoe showing standard clamp and ends of gang bars

No. 78Z



Zig-Zag gang riding cultivator

Spring Teeth

Fig. 555

Spring teeth can be supplied in place of the break-pin hoes—if wanted that way order by adding letter "A" to the number, as No. 78A.

Spring Lift

The new gangs are very strong, yet they are also light and most farmers will not need springs to lift the gangs. They will *not be shipped with the machine, regularly*, but can be furnished extra, for each machine. Order by adding letter "S" to the number, as No. 78S. If as an attachment, order Fig. 556.

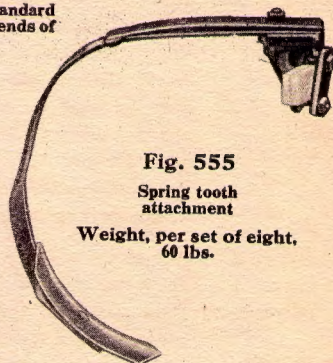


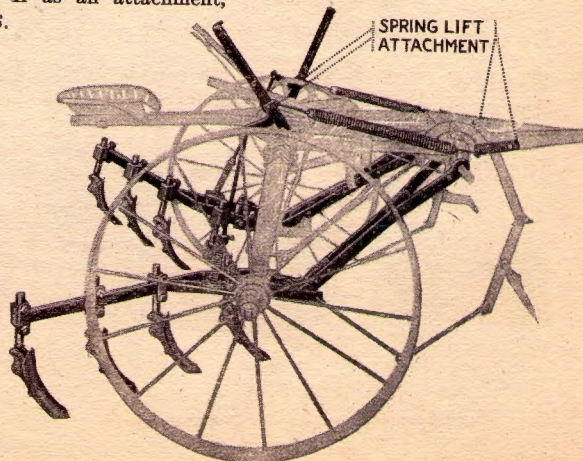
Fig. 555

Spring tooth attachment

Weight, per set of eight, 60 lbs.

Fig. 556

Parts in solid black, indicated by dotted lines are the spring lift attachment. Other black parts show one gang lifted.



All-Steel Pivot-Wheel Riding Cultivator

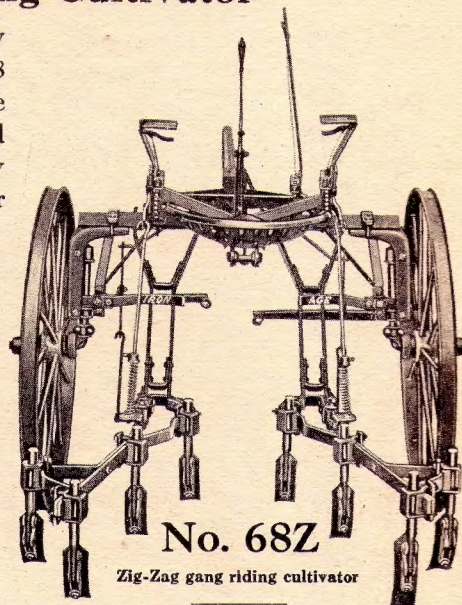
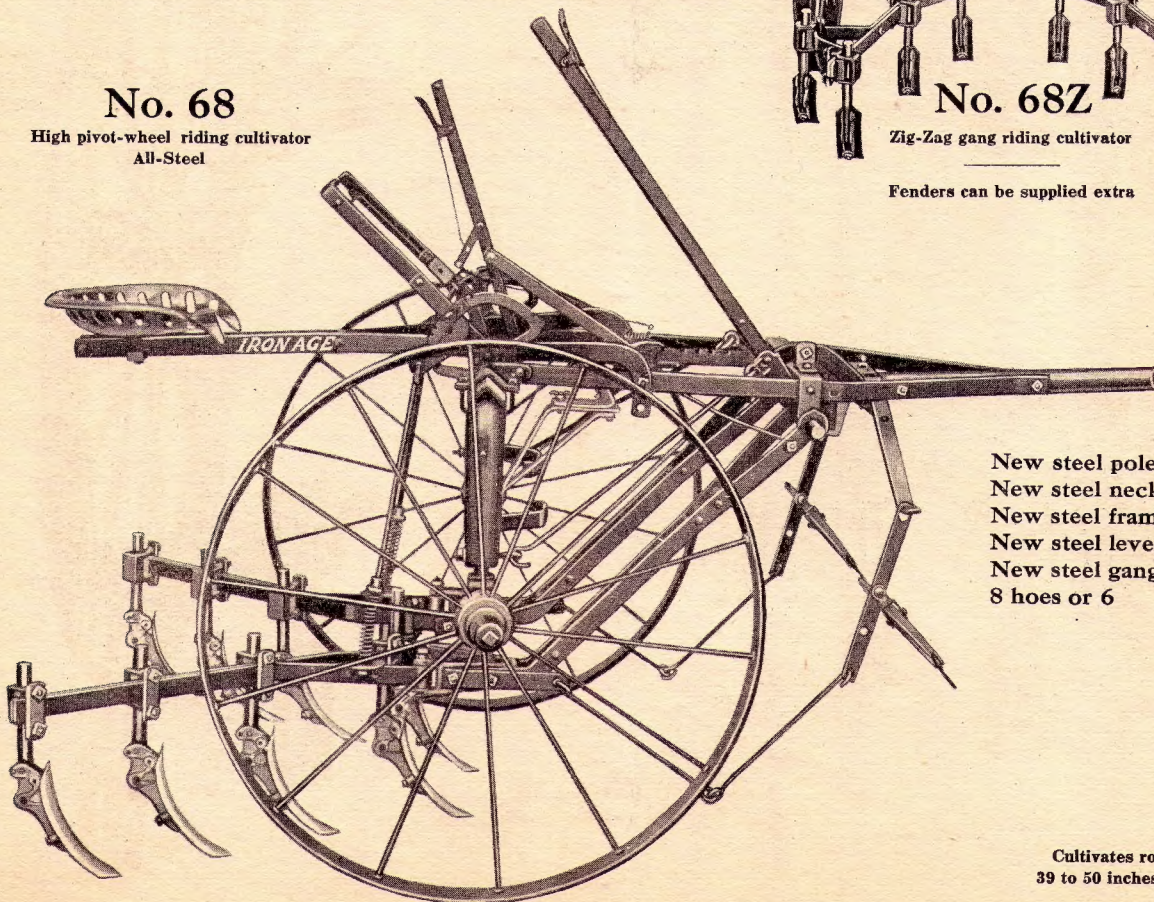
No. 68 This is our high pivot-wheel cultivator and is exactly like No. 78 in all but two points—the wheels are 38 inch with channel steel tires, and the steel axle standards are a trifle different in shape and made to carry the higher wheels. Furnished in same equipment and same style as No. 78. An exceptionally light, yet strong and convenient cultivator, for those who prefer and think they must have high wheels.

LIST OF HIGH PIVOT-WHEEL, ALL-STEEL CULTIVATORS

	Packed weight, lbs.		Packed weight, lbs.
No. 66 —Six Hoes, plain	380	No. 68 —Eight Hoes, plain	392
No. 66A —Six Hoes, Spring Teeth	378	No. 68A —Eight Hoes, Spring Teeth	392
No. 66B —Six Hoes, Spring Hoes	402	No. 68B —Eight Hoes, Spring Hoes	422
No. 66R —Six Hoes Roller Bearing	388	No. 68R —Eight Hoes, Roller Bearing	400
No. 66S —Six Hoes, Spring Lift	388	No. 68S —Eight Hoes, Spring Lift	400
No. 66RS —Six Hoes, Roller Bearing and Spring Lift	396	No. 68RS —Eight Hoes, Roller Bearing and Spring Lift	408
		No. 68Z —Eight Hoes, Zig Zag Gangs	396

No. 68

High pivot-wheel riding cultivator
All-Steel



No. 68Z

Zig-Zag gang riding cultivator

Fenders can be supplied extra

New steel pole
New steel neckyoke
New steel frame
New steel levers
New steel gangs
8 hoes or 6

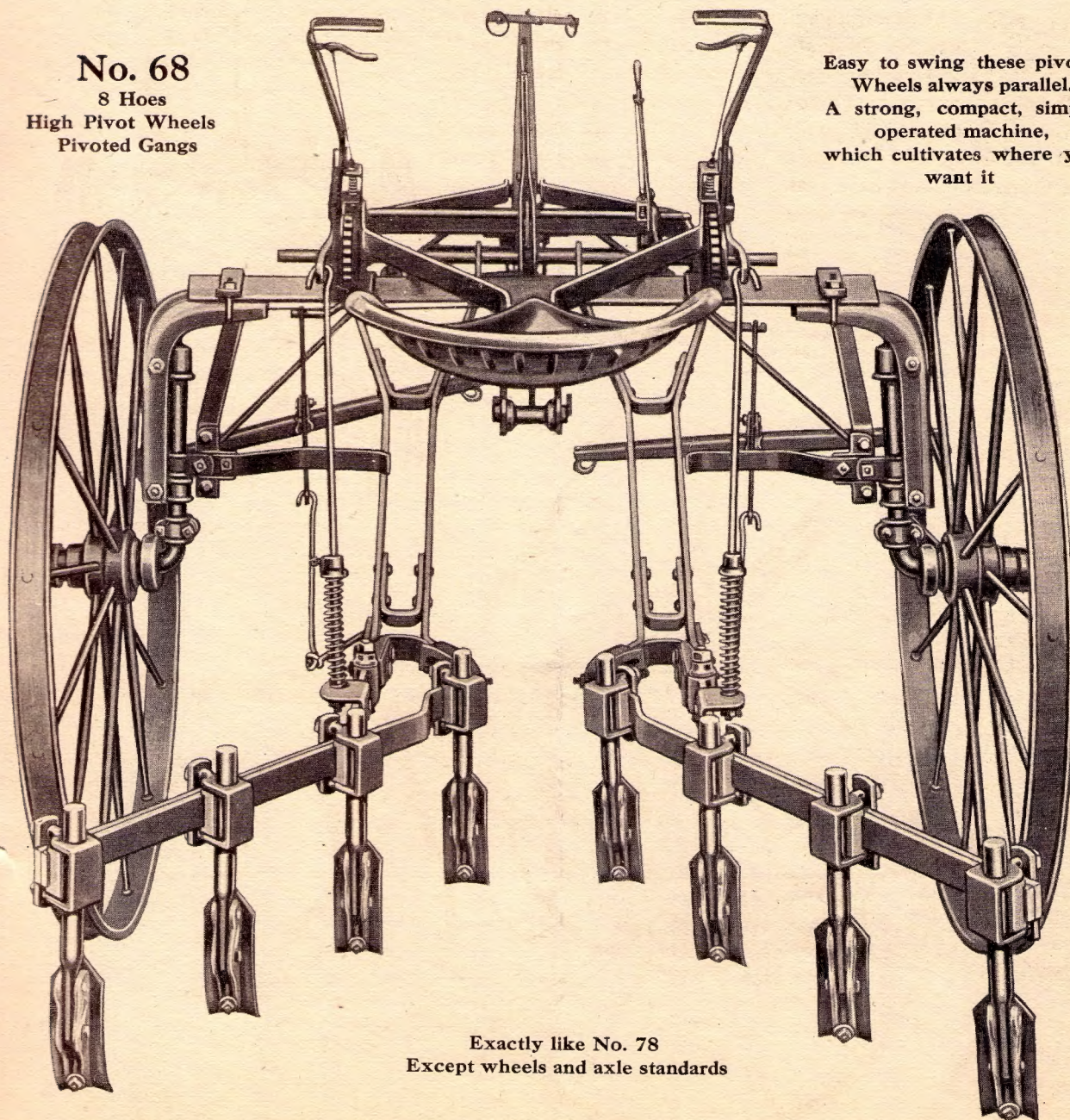
Cultivates rows
39 to 50 inches apart

All-Steel High Pivot-Wheel Riding Cultivator

No. 68

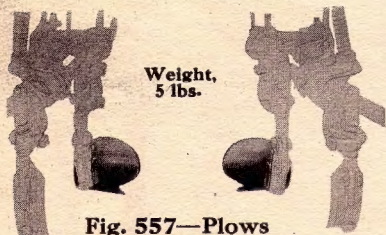
8 Hoes
High Pivot Wheels
Pivoted Gangs

Easy to swing these pivots.
Wheels always parallel.
A strong, compact, simply
operated machine,
which cultivates where you
want it



Exactly like No. 78
Except wheels and axle standards

Attachments for Riding Cultivators



Weight,
5 lbs.

Fig. 557—Plows
For spring-tooth machines,
order as Fig. 557S

Plows
Fig. 557

They are used for hilling crops or for covering furrows. Many men use them for laying by and some use two or three plows on each side. The attachment includes pair of plows and the necessary castings to fasten to the standards. They are made to fit all riding cultivators with break-pin or spring hoes.

For riding cultivators with spring teeth, special standards and holders will be needed. (Order as *Fig. 557S* and specify number and style of machine.) Please remember when ordering part of this attachment that "right" and "left" depend on where you stand.

Used for ridging, for turning the soil from growing plants and for covering seed, fertilizer, manure, etc. Frequently, it proves its value in cultivating young plants—it cuts close but throws the soil from the plants instead of on them. It acts as a shield.

Fig. 548 shows our disc attachment, in position for ridging or covering. It has a cast axle, a chilled bearing, sand caps to protect against dirt, and also has an adjustable grease cup. Grease is forced into a chamber in the axle by a turn of the cup and reaches the disc bearing through a hole in the axle. *Fig. 549* shows the construction, in part. The 12-inch discs can be adjusted at any angle and, of course, at any depth.

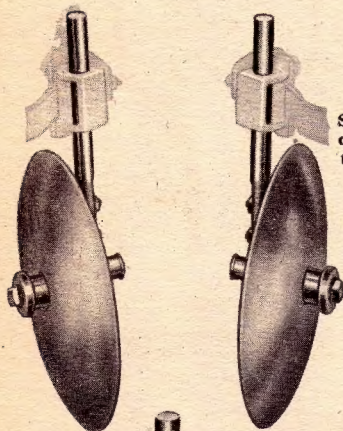
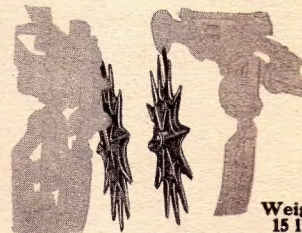


Fig. 548

Solid parts show
complete disc at-
tachment,

Weight,
20 lbs.



Weight,
15 lbs.

Fig. 545

Solid part shows star fender
attachments

When disc attachments are wanted for older machines, please give number and style of the cultivator, and if possible, year purchased. These attachments do not cost much money and they save their cost many times by making a new tool unnecessary.

**Star
Fender
Attach.
Fig. 545**

Furnished only when ordered. They revolve in the direction in which the machine is going—while they protect from heavy clods of dirt, they also let fine dirt through.

**Double-
Row
Extension
Fig. 547**

For cultivating at one time two rows of beans, potatoes and other crops planted equally close. The team straddles one row and this attachment cultivates close to the next row on each side—in other words, you cultivate all of the two middles in rows up to 33 inches wide. Does not leave open furrows next to the crop, as the extra outside tooth is ahead of the rear tooth on the regular gang. Also valuable for cultivating very wide rows, up to 59 inches apart. If wanted with spring tooth, order *Fig. 547S* at same price. We can furnish double row extensions for old style, grooved round bar cultivators, Nos. 82 and 878. In that case please give the number and year of your machine.

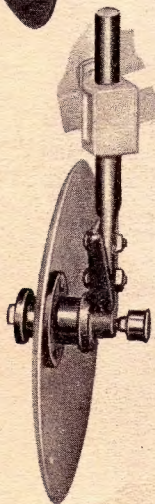
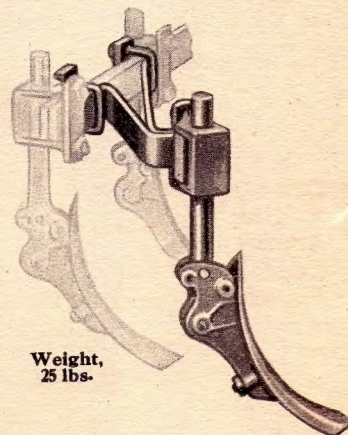


Fig. 549

End view showing
grease cup, hub,
etc.



Weight,
25 lbs.

Fig. 547

Double row attachment shown in
the solid parts

Attachments for Riding Cultivators—Continued

Hilling Attach- ment Fig. 261

These shovels are used on all Riding and Walking Cultivators and Horse Hoes with entire satisfaction. They will hill crops, take away soil from the plants and cover furrows.



Fig. 261

Hilling Shovels,

Weight, 5 lbs.

Tobacco Attach- ment Fig. 4688

The engraving shows it applied on a low-wheel Riding Cultivator. If wanted for a new machine, the attachment should be ordered as *Fig. 4688*; takes two to work it, one on the upper seat to drive and the other sits behind to operate the independent gangs in tobacco and other crops, where it is desirable to work close to the plants and between the hills, get perfectly level cultivation and keep weeds out. Each of these independent gangs has three narrow, reversible diamond-shaped teeth with cultivator tooth forged on one end and harrow tooth on the other. One or more teeth can be taken off—trashy soil may make it necessary to use but two. Each independent gang pivots in front and tension springs keep them in the ground. Gangs are raised easily at ends of rows. The attachment is constructed so that the front inside regular cultivator teeth can be set forward, where they break up the soil ahead of the narrow teeth—heretofore they could not be used at all. Tobacco attachments for other machines are as follows: No. 60 takes *Fig. 4681*; Nos. 82, 140 take *Fig. 4682*; Nos. 83, 84 take *Fig. 4683*; Nos. 63, 86 take *Fig. 4684*; No. 878 takes *Fig. 4686*; Nos. 608, 626 take *Fig. 4687*.

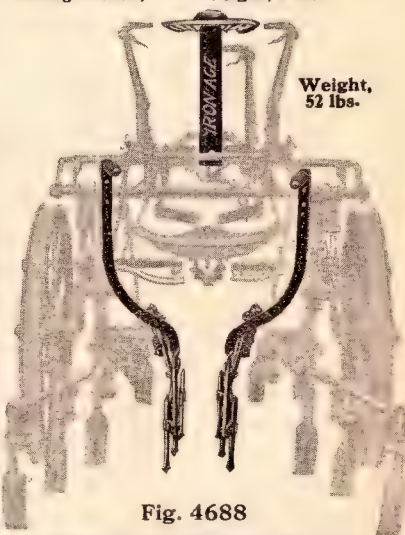
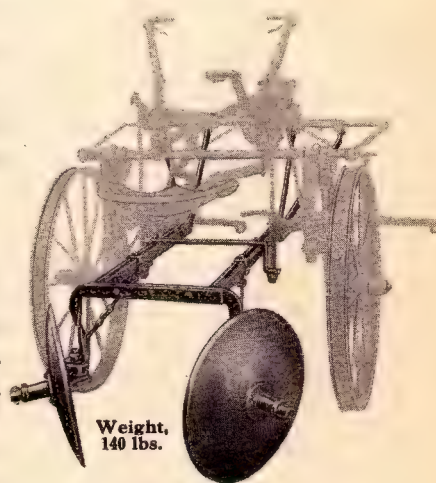


Fig. 4688

Solid parts show tobacco attachment applied to low wheel machine.

Disc Ridging Attach- ment Fig. 484

This attachment will fit any of our older No. 878 or 608 series. It is used to throw up a higher ridge than is possible with plows or regular disc attachments. It is simply a larger and stronger equipment than the disc attachment. It is applied in place of the cultivating gangs—has 20-inch discs, adjustable for depth, width of ridge and angle at which they are set. This attachment is especially valuable in that part of New England where high ridging of potatoes is practiced. If wanted for old No. 82 series, order *Fig. 284*.



Weight,
140 lbs.

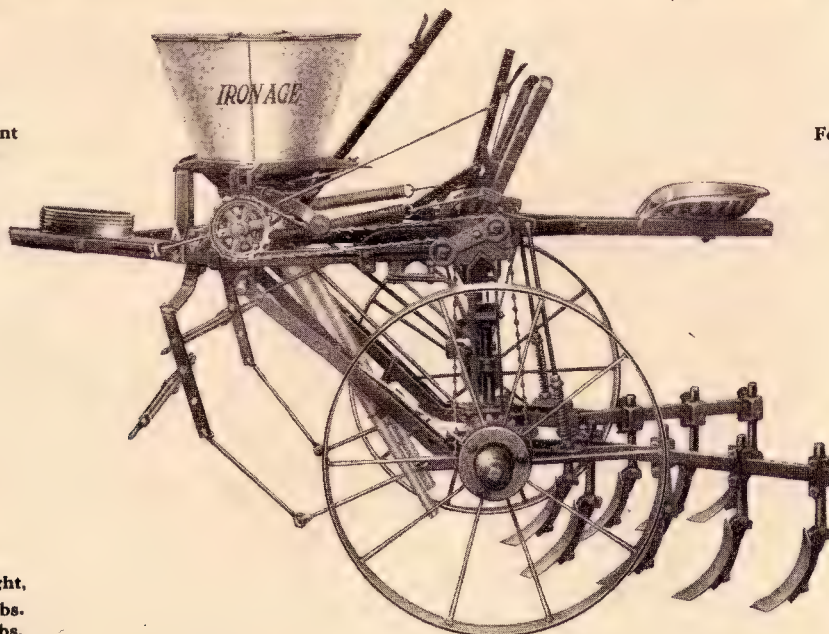
Fig. 484

Solid parts show disc ridging attachment on old No. 878.

Fertilizer Attachment for No. 68 and No. 78 Riding Cultivators

Fig. 568
Fertilizer Attachment
for No. 68 Riding
Cultivator

Fig. 578
Fertilizer Attachment
for No. 78 Riding
Cultivator



Packed weight,
Fig. 568, 117 lbs.
Fig. 578, 112 lbs.

A Wonderful Invention recently added to the "Iron Age" line that marks the greatest advance in scientific cultivation in recent years. Alone, this one remarkable feature raises the "Iron Age" Riding Cultivator head and shoulders above all others because, knowing its value, no farmer would be willing to get along without it. With an "Iron Age" Riding Cultivator equipped with this device, lagging crops can be given a boost with nitrate of soda or other similar quick-acting fertilizer at the critical time when quick growth means success or failure. It makes an immense cut in the labor by reducing the number of operations required, it saves money on high-priced fertilizers, and

Combines Cultivation and Fertilization

This attachment greatly extends the usefulness of the cultivator, giving it the added ability to do side-dressing, and to make up fertilized rows.

A No. 68 or No. 78 "Iron Age" Riding Cultivator equipped with this attachment saves distributing all the fertilizer before crops are planted, and avoids special side-dressing operations, as a quick-acting fertilizer can be mixed with the moist soil when the crop is cultivated. With high-priced fertilizers this method is especially desirable as smaller quantities are required and there is less likelihood of leaching from heavy rains. Masses of fertilizer are not permitted to form and there will be no layers of same under the plants which cannot be stirred up to make plant food available.

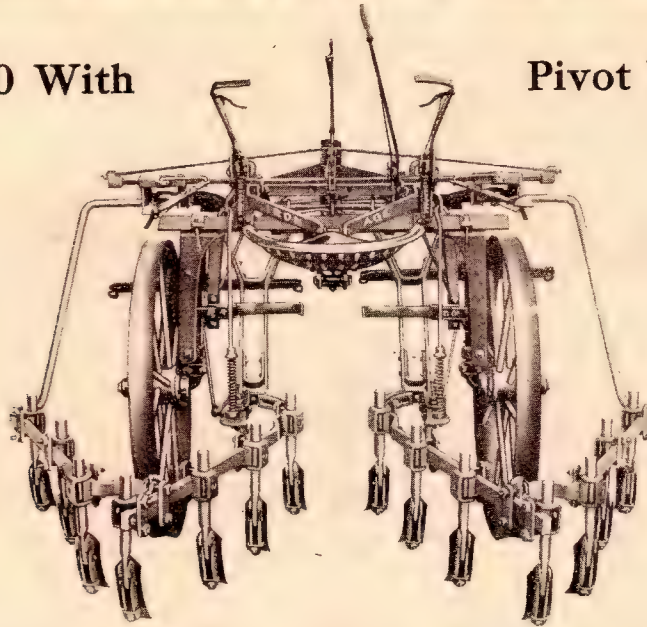
By the use of this attachment and a pair of discs the machine becomes a practical Row Maker, making up and fertilizing rows for such plants as cabbage, peppers, tomatoes, melons, etc.

The hopper holds about 80 pounds of commercial fertilizer or about 50 pounds of cotton seed meal. The feed is practically the same as that used on the "Iron Age" Potato Planter, which has served efficiently and dependably for many years. The feed spouts are adjustable, and can be regulated to suit the width of rows.

Combined One- and Two-Row Riding Cultivator

No. 1400 With

Pivot Wheels



Packed weight,
No. 1400, 529 lbs.
No. 1400R, 537 lbs.

Equipped as shown here this machine cultivates the entire space between three rows, which is the same as cultivating *two* rows. A trip is made astride only every second row. The rows not worked astride at the first cultivation can be run in the center at the second, alternating the rows in this way each time the field is gone over.

A great labor and time saver that enables one man with one team to cover as much ground in a day as two men and four horses with the one-row machine. This makes it very valuable for large fields and long rows, or where cultivation has been delayed and must be rushed through.

The sections of the gangs which are outside the wheels can be easily removed when the cultivator is wanted for one-row work only, for instance, on hillsides or similar places where a two-row machine would be impracticable.

The No. 1400 machine will cultivate two full middles measuring from 28 to 44 inches each. The wheels when set close are 33 inches apart from center to center, and at the widest are 43 inches apart from center to center. The gang lever gives an adjustment of center gangs from 6 inches to 16 inches, varying with adjustment of the gang pivots.

The gangs are rigidly pivoted with cone-shaped bearings on the gang heads, so that any range is obtainable. The gang heads are attached to the frame by means of a high carbon, smoothly finished steel bar placed crosswise, giving a very strong bearing, easy shift, and sideways movements of the gangs that are always parallel. One lever shifts both gangs for width while team is in motion as easily as when standing.

Drop-forged steel clamps, with solid blocks between standard and bar, hold the tooth standards in place, giving any desired adjustment for the teeth. Tension springs on the lifting lever rods hold the teeth to their work even in hard soil, but give before obstructions. A balance lever conveniently placed serves to balance frame with weight of driver.

Strong, rigid and light—everything is steel—pole, neckyoke, single trees, frame, inverted angle steel arch, one-piece steel axle standards, steel levers, steel lock washers on every bolt, and the simplest but strongest steel gangs that can be made. Furnished either with or without roller bearings, but the roller bearings are very strongly recommended for this machine. Their small cost is well repaid by the easier draft, longer life, and greater rigidity of machine.

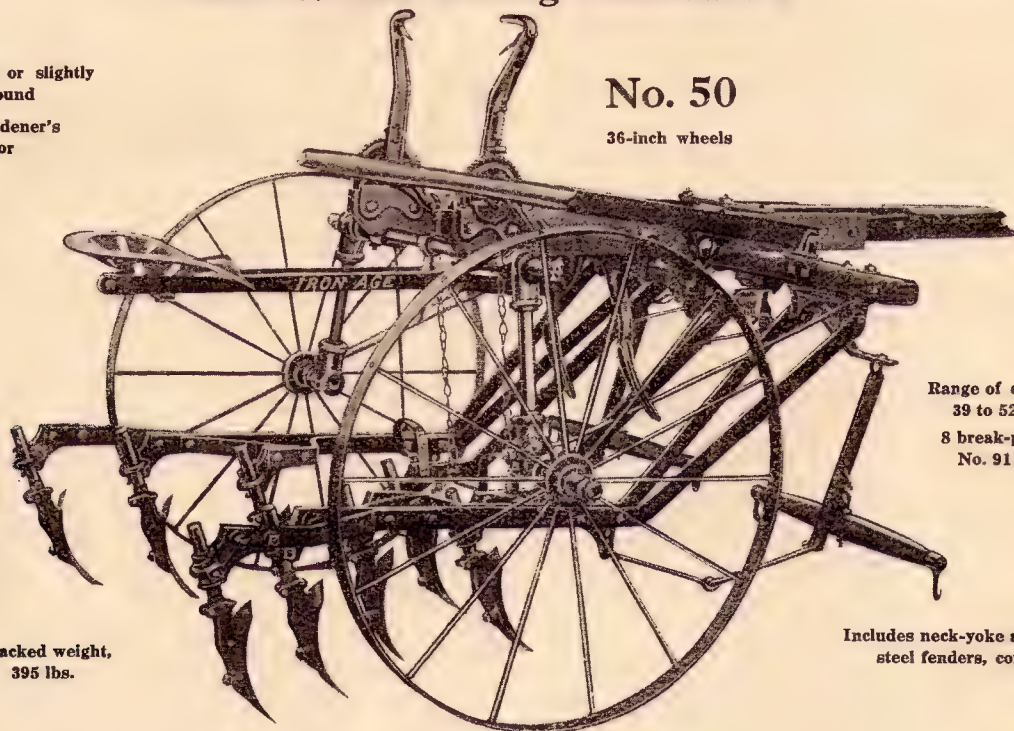
Fixed-Wheel Riding Cultivators

For use on level or slightly
rolling ground

A market gardener's
cultivator

No. 50

36-inch wheels



Packed weight,
395 lbs.

Range of cultivation,
39 to 52 inches
8 break-pin hoes.
No. 91 points

Includes neck-yoke and pair of
steel fenders, complete

For Level Ground

For the market gardener and general farmer who cultivates level or slightly rolling ground, No. 50 is the machine. We have been making it for 24 years and all of this time it has done thorough work. Because it carries fixed wheels it is not so good for side hills.

Strong, Convenient Gangs

The gangs are of the flat steel bar kind—strong and rigid. The inside teeth are independent and operated as described below. The outside sections are fixed in front and braced, and are adjustable in slots in the cross bar to suit the various width rows. The rear outside sections of each gang can be removed—it is sometimes necessary to use six hoes in narrow rows.

Can Work Around Each Plant

Old-timers guided gangs with their feet. It was hard work; no fun at all to use a rider. But now a patent gang lever does the trick. Shifting the lever to the left or right steers the independent points around misplaced hills or bushy plants and depressing the lever brings the points together between the hills. All the plants get close and thorough cultivation.

Of Special Interest to Market Gardeners

No other Riding Cultivator can do this and it is just what the market gardener wants—he is looking for exact work, especially among small plants. Foot loops are attached to the independent gangs and they can be used where both hands are needed for driving, or when the machine is used without the side lever and yoke that controls the independent gangs.

A chain lift raises and carries the independent gangs at the proper height. Ordinarily, the feet give all the extra pressure on the gangs that is needed.

Spring- Pressure Lock-Down

Like those on Nos. 878 and 608. Furnished when ordered (see list opposite). They hold the points in the ground with all the necessary pressure, yet the pressure always gives when the points strike obstructions and there is little, if any, danger of breaking the points.

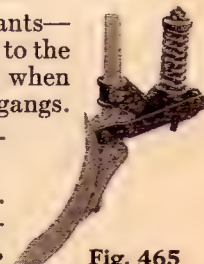


Fig. 465
See page 5

Fixed-Wheel Riding Cultivators—Continued

Point Standards

They are the same as used on Nos. 78 and 68 Cultivators and have same adjustments for depth and angle.

The Points

The regular style are $2\frac{1}{2}$ inches wide, but we can furnish, when ordered, points $1\frac{1}{4}$ and $3\frac{1}{2}$ inches wide. (See list on inside back cover.)

Other Adjustments

The seat support is adjustable in height and angle. A steel evener is used and the draft is direct from each gang.

Range of Cultivation

Any width rows, 39 to 52 inches apart, representing space between the wheels.

Choice of Equipment

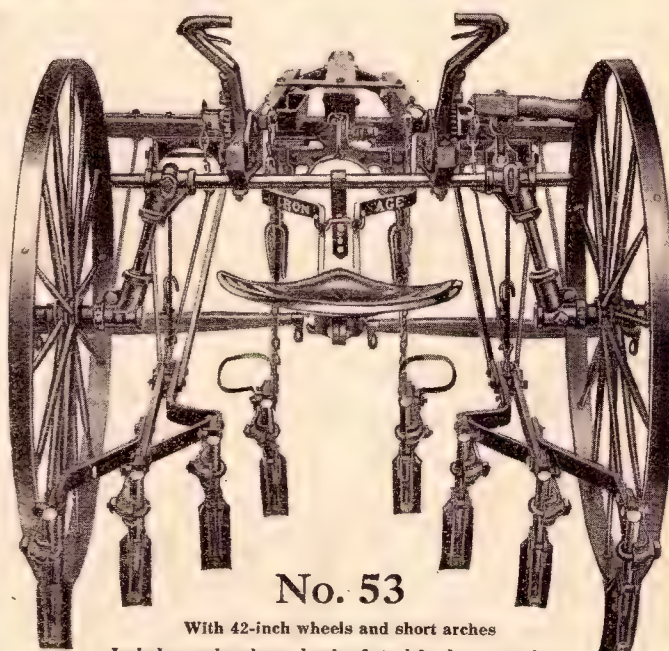
Either 36- or 42-inch steel wheels, flat rim. With chain lift or with spring-pressure lock-down or without side lever and yoke. If wanted with gangs arranged as in No. 536, six hoes, add the figure "6" to the number. If spring hoes (Fig. 465) are wanted in place of break-pin hoes, add letter "B" to the number, as No. 50B.

This Cultivator cannot be equipped with spring teeth.

Attachments No. 50 takes Figs. 557, 261 and 285 shown on pages 8 and 9.

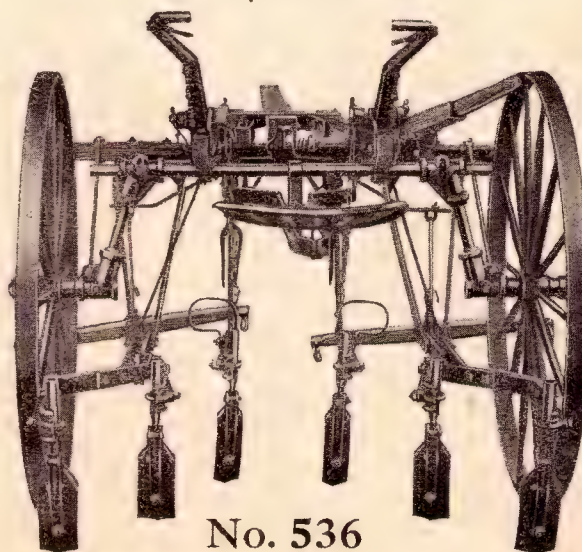
LIST OF FIXED-WHEEL CULTIVATORS

	Packed weight, lbs.		Packed weight, lbs.
No. 50—With Chain Lift.....	395	No. 526B—No. 52B with 6 hoes.	391
No. 50B—With Spring Hoes, (see Fig. 465).....	417	No. 53—With Chain Lift and 42-inch wheels.....	407
No. 506—No. 50 with 6 hoes...	379	No. 53B—With Spring Hoes, (see Fig. 465).....	437
No. 506B—No. 50B with 6 hoes.	401	No. 536—No. 53 with 6 hoes...	391
No. 51—With Lock-Down.....	325	No. 536B—No. 53B with 6 hoes.	413
No. 51B—With Spring Hoes (see Fig. 465).....	417	No. 54—Same as No. 52 with 42-inch wheels.....	400
No. 52—Without Side Lever and Yoke.....	385	No. 54B—With Spring Hoes, (see Fig. 465).....	430
No. 52B—With Spring Hoes, (see Fig. 465).....	497	No. 546—No. 54 with 6 hoes...	388
No. 526—No. 52 with 6 hoes...	369	No. 546B—No. 54B with 6 hoes.	410



No. 53

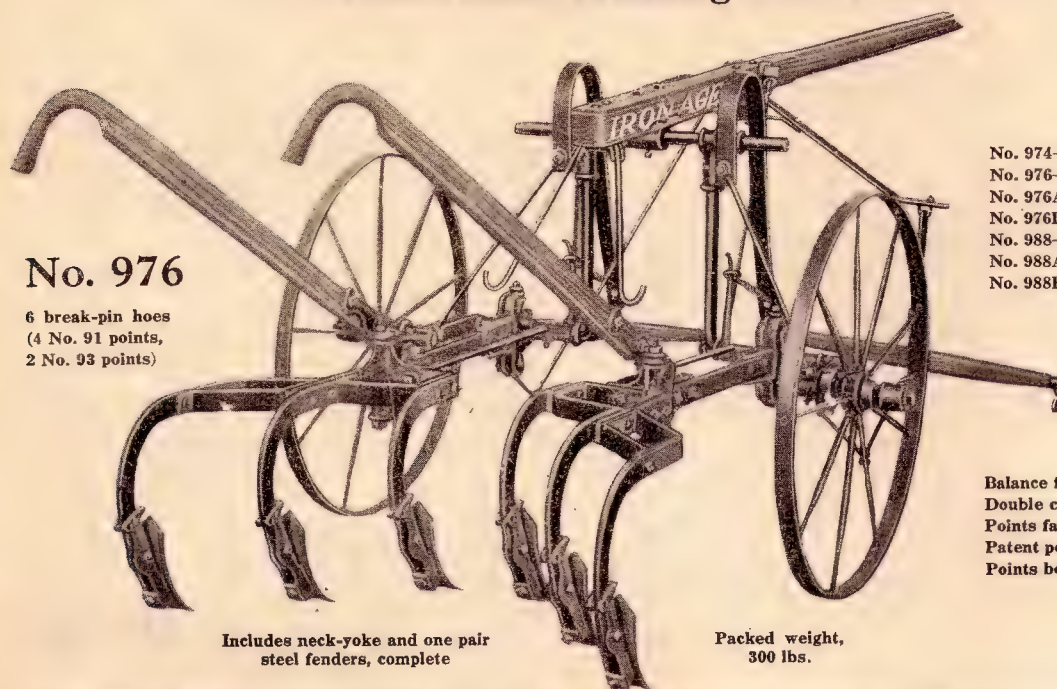
With 42-inch wheels and short arches
Includes neck-yoke and pair of steel fenders, complete
Packed weight, 407 lbs.



No. 536

Riding Cultivator, with 6 hoes, 42-inch wheels and short arches
Packed weight, 394 lbs.

Two-Horse Walking Cultivators



No. 976

6 break-pin hoes
(4 No. 91 points,
2 No. 93 points)

Includes neck-yoke and one pair
steel fenders, complete

Packed weight,
300 lbs.

LIST Packed weight, lbs.

No. 974—4 Hoes.....	282
No. 976—6 Hoes.....	300
No. 976A—6 Spring Teeth.....	315
No. 976B—6 Spring Hoes.....	317
No. 988—8 Hoes.....	316
No. 988A—8 Spring Teeth.....	336
No. 988B—8 Spring Hoes.....	338

Balance frame
Double cone bearings
Points face one way, as set
Patent point carrier
Points bolted

The Need for Them Walking Cultivators answer the need of many a man who wants a lower priced machine than a rider, yet one that will do thorough work. They are easier on a team than a rider, easier on the man than a one-horse hoe and they will work on steep hillsides, on stony or stumpy ground and in high grown crops where a rider cannot be used.

Balance Frame and Bearings No. 976 is a balance frame machine—the relative position of frame and wheels does not change whether the gangs are in the ground or hung up. Double cone bearings carry the gangs. They reduce friction in operation and one nut in a slotted hole takes up the wear. The gangs have pivot joints and shift in parallel lines with the points always facing one way. They are adjustable for the size of the crop—5½ inches on each side.

Wheels The wheels are steel with flat rims and sand- and dust-proof hubs with lubricating cups.

Width of Rows Wheels are adjustable on the arch for rows 36 to 50 inches from center to center, and the cultivator can safely be used in 28-inch rows with the wheels set close.

No. 988 with 8 hoes can clean up about a 44-inch middle. In narrow rows one tooth on each side can be taken off and you can still work safely in 28-inch rows.

Axles Short stub axles are used and they are easily and cheaply replaced when worn. Most balance frame cultivators have arch and axle in one piece.

Points and Carriers The point carriers are our patent—something entirely different—they are adjustable up or down or at any angle on the oval surface of a practically indestructible block. The points are bolted, not riveted—one bolt holds point, block carrier and washer. You will find this a real convenience and the parts are cheaply replaced. For Nos. 976 and 988, 2½-inch points (No. 91) are furnished for the inside and 3½-inch (No. 93) for the outside. Any size points will be furnished that are needed. For No. 974 a new 4½-inch point is used.

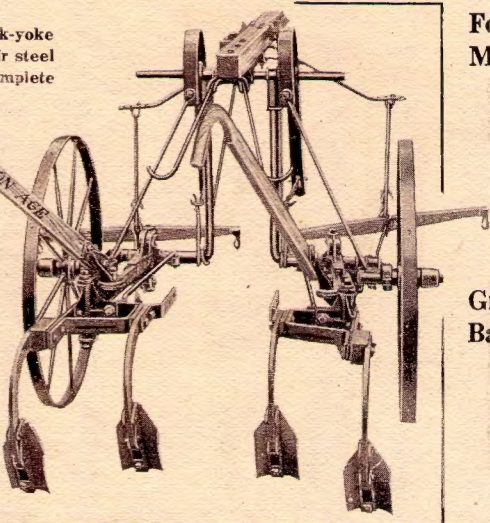
Handles The handles are adjustable to permit the operator to work astride the row or at one side.

Two-Horse Walking Cultivators

Includes neck-yoke
and one pair steel
fenders, complete

No. 974

4 break-pin
hoes
4, 4½-inch
points
Packed
weight,
282 lbs.



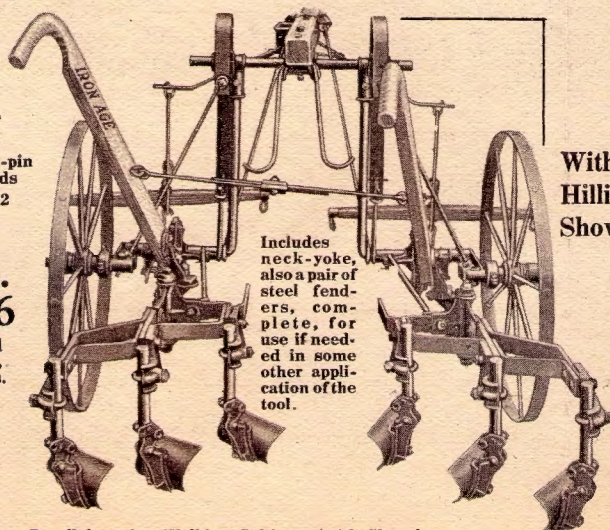
pivoted gang can be adjusted to clean up *any* width row and with the grooved bar any number of teeth can be used. By moving the teeth wherever you need them, intensive cultivation is always possible and you can make it more or less at any time. The steel fenders permit working close without injury to the crop.

This tool is furnished with six or eight break-pin hoes, with spring hoes or with spring teeth. With eight break-pin hoes it is known as No. 948.

Equip-
ment
6 break-pin
standards
6 No. 12
steels

No. 996

Packed
weight,
313 lbs.



Includes
neck-yoke,
also a pair of
steel fenders,
complete, for
use if need-
ed in some
other appli-
cation of the
tool.

Parallel motion Walking Cultivator with Shovels

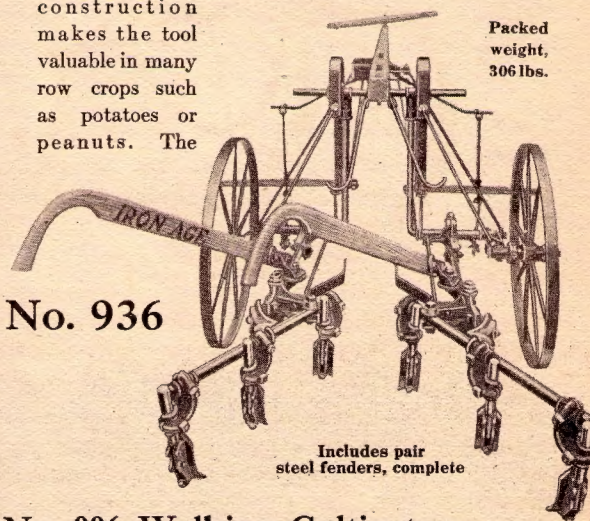
Four-Hoe Machine

In hard or stony ground where the crop is planted close together, a four-hoe machine (No. 974) with wide points does better work. It will tear up the ground where narrow points would merely scratch the surface without doing any good. Set-over frame blocks are made to give the right spacing for this machine and 4½-inch cultivator points are used (No. 88).

No. 936 Walking Cultivator

Grooved Bars

No. 936 is a combination machine. It has the balance frame of No. 976 but with grooved bars and pivoted gangs similar to our No. 878 Riding Cultivator. This construction makes the tool valuable in many row crops such as potatoes or peanuts. The



Packed
weight,
306 lbs.

No. 936

Includes pair
steel fenders, complete

No. 996 Walking Cultivator

With Hilling Shovels

These shovels or steels are the same as used on old style "Riggs" Gang Plow of which we still make a few for those who insist on having them. Some men prefer these shovels instead of cultivator points and so we have applied them with round standards to fit our No. 976 Walking Cultivator. The steels are adjustable for height or angle and the standards are adjustable in their sockets. By taking off all but the inside standards, you can use this tool for covering if necessary. Note how handles are tied together—this keeps the gangs in line—the natural tendency of shovels is to push back from the row. This tie keeps them up.

In all other respects this machine is same as No. 976. No. 996 has 6 break-pin standards and No. 998 has 8.

Two-Horse Walking Cultivators No. 988A

(Continued)

Spring Teeth

Spring teeth are best for level cultivation. They leave a fine soil mulch which helps to retain the moisture in time of drought and yet it is loose enough to let the chemical parts of air unite and work on the soil for the benefit of the plants. Order by adding letter "A" to the number, as No. 988A.

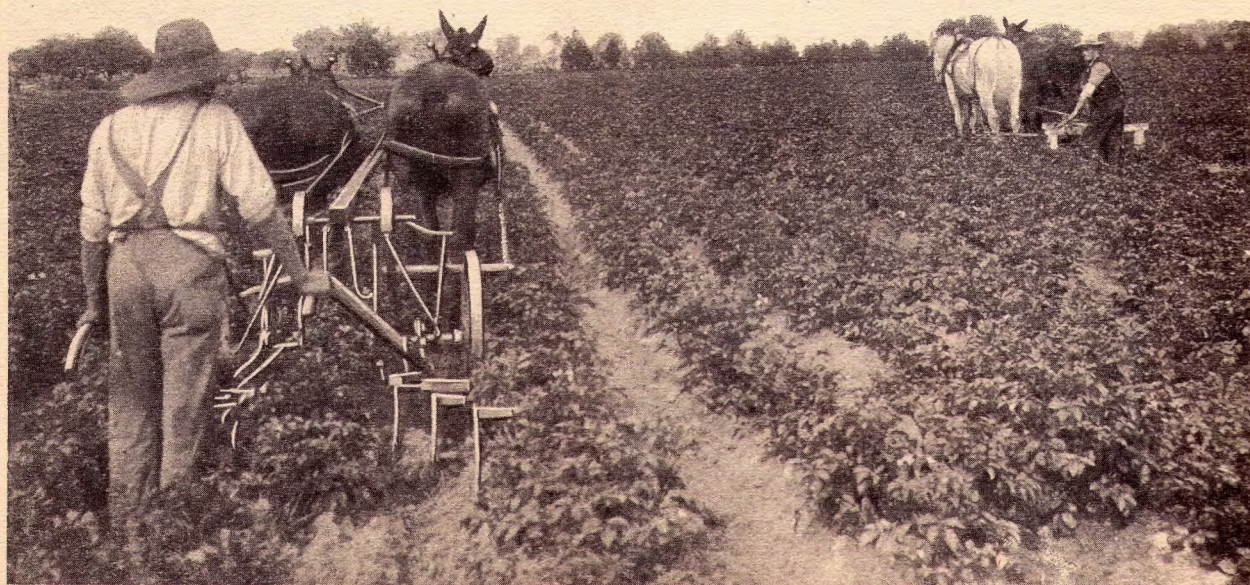
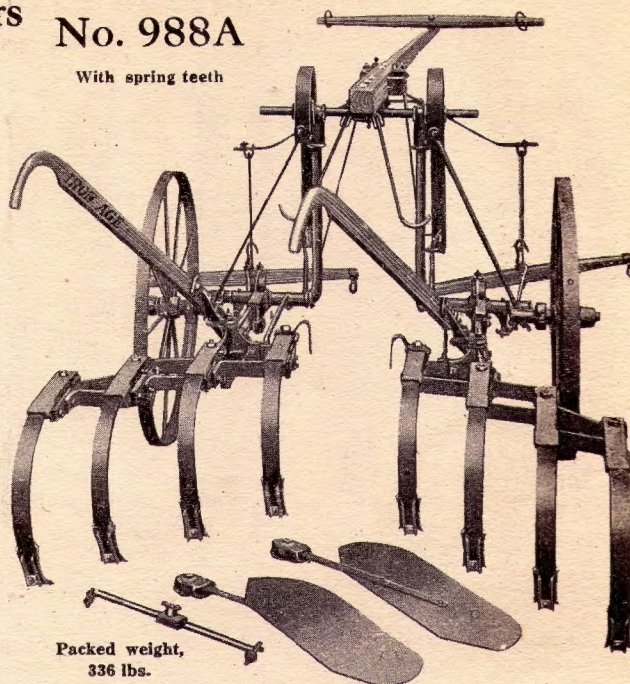
Other Equip- ment

Walking Cultivators are furnished with four, six or eight hoes. Regularly with break-pin hoes, or with spring hoes by adding the letter "B" to the number, as No. 976B.

Attach- ments

Plow attachments similar to *Fig. 557*, on page 8. can be used on these Two-Horse Walking Cultivators, but they should be ordered as *Fig. 557W*.

With spring teeth



No. 976 Two-Horse Walker in potatoes. Also old style "Riggs" Gang Plow. (Not listed but still sold when ordered.)

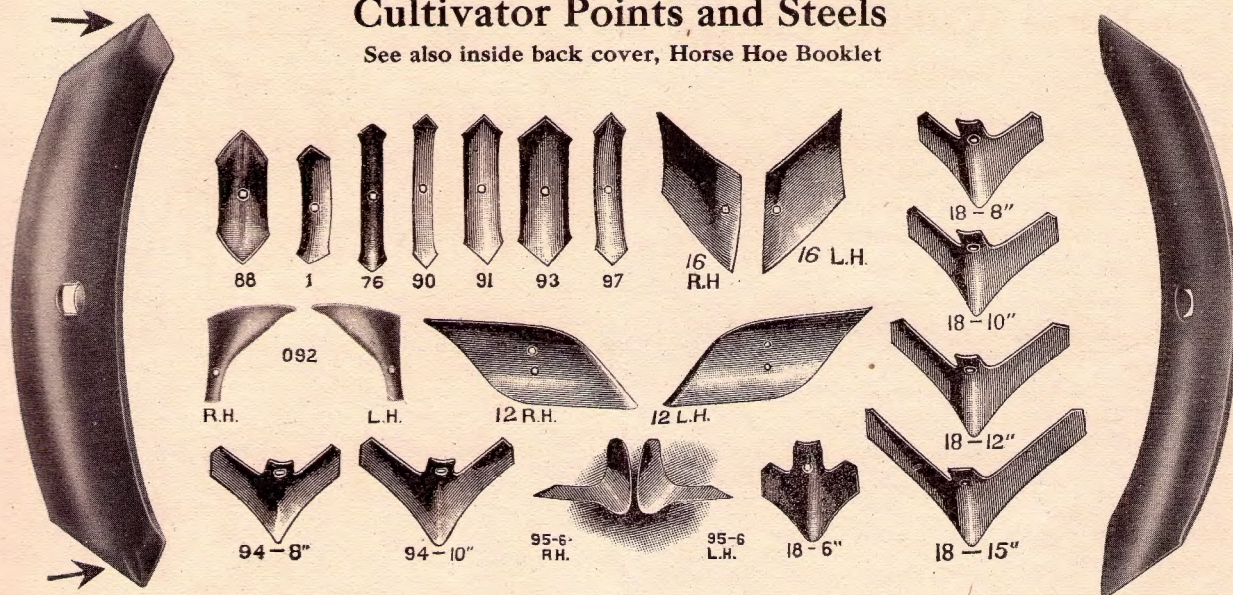
BATEMAN M'FG CO.,
GRENLOCH, N.J., U.S.A.

IRON AGE

EIGHTY-FOUR
YEARS IN BUSINESS

Cultivator Points and Steels

See also inside back cover, Horse Hoe Booklet



No. 1—2 inches
No. 12—R. or L.
No. 16—R. or L.
No. 18—6 inches
No. 18—8 inches
No. 18—10 inches
No. 18—12 inches

No. 18—15 inches
No. 092—Hilling Blade and Point, per pair
No. 88—4½ inches

For Riding Cultivators only
No. 76—1½ inches

No. 90—1¼ inches
No. 97—2 inches
No. 91—2½ inches
No. 93—3½ inches
No. 94—8-inch Sweep
No. 94—10-inch Sweep
No. 95—6-inch Side Hoes

These are made of highest grade of material—all points are double end, of course, and re-inforced by upsetting at the tips so that they give twice the wear of ordinary points. No. 1 is used only on spring tooth machines—Nos. 12, 16, 18 may be used if needed, and the others are used only on Riding Cultivators of the complete "Iron Age" line.

We are among the largest manufacturers of points and steels in the United States and are able to give you the best of service.

We carry a very large assortment of sizes and shapes. (See also inside back cover, Horse Hoe Booklet.) Stocks carried at centers of distribution.



No. 506 cultivating potatoes at early stage of the growth. An ideal machine for level fields. Fixed wheel. Independent inside teeth. (See pages 12-13.)

IRON AGE

Planted and Cultivated with
Iron Age Tools and now he is using
a Disc Attachment to Lay Them By

Two-
Horse
Walking
Cultivator
in
Potatoes



Two No. 50 in Corn that has Just
Come Through the Ground



With
Plowing
Attachment

High
Flank
Wheel
Machine
in
Potatoes



Cultivating Sweet Corn
Deep in Centre, Shallow near Crops



Working Close to the Early Stages of Growth



For Level Cultivation



Alvin Bateman, Mfg. Co. Cultivator